Australian Standard®

Bursting discs and bursting disc devices—Application, selection and installation



This Australian Standard® was prepared by Committee ME-001, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 21 September 2004. This Standard was published on 8 November 2004.

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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Bursting discs and bursting disc devices—Application, selection and installation

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment, to supersede AS 1358—1989.

This Standard incorporates Amendment No. 1 (February 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide requirements and guidance on the application, selection and installation of bursting discs and bursting disc devices.

The objective of this revision is to align the Standard with current international practice and specifically with ISO Standards.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard

Bursting discs and bursting disc devices—Application, selection and installation

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard provides requirements and guidance on the application, selection and installation of bursting discs and bursting disc devices.

The information to be used for identification and the information to be marked on bursting discs and bursting disc devices is specified in Appendix A.

Testing and certification requirements for bursting discs are specified in Appendix D.

NOTES:

- 1 Information which the purchaser may provide to assist in the design or the selection of bursting discs and bursting disc devices is given in Appendix B.
- 2 Equations for the calculation of the discharge capacity for single phase flow are given in Appendix C.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

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1210	Pressure	vesse	ls

Safety valves, other valves, liquid level gauges and other fittings for boilers

and unfired pressure vessels

4942 Pressure equipment—Glossary of terms

ASME

BPV-VIII-1 Boiler and pressure vessel code Section VIII—Rules for construction of

pressure vessels: Division 1

ISO

Safety devices for protection against excessive pressure

4126-6 Part 6: Application, selection and installation of bursting disc safety devices

1.3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 4942 and those below apply.

1.3.1 Average bursting pressure

The arithmetic average value, at the coincident temperature, of the test bursts carried out on a batch of discs by the manufacturer.

1.3.2 Backpressure

The static pressure existing at the outlet of a bursting disc device at the time the device is required to operate. It is the result of pressure in the discharge system from other sources or as a result of vacuum on the upstream side.



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